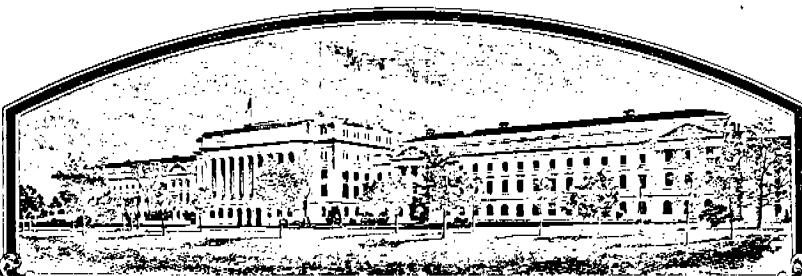


No.



7300064

# THE UNITED STATES OF AMERICA

**TO ALL TO WHOM THESE PRESENTS SHALL COME:**

Peterson Seed Division  
Pioneer Hi-Bred International, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE

**Secretary of Agriculture**

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *seventeen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT (STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'P61-22'

*In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this sixth day of March in the year of our Lord one thousand nine hundred and seventy-five*

Attest:

*A. J. Rollin*  
Commissioner  
Plant Variety Protection Office  
Grain Division  
Agricultural Marketing Service

*Earl L. Buttz*

Secretary of Agriculture

## APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

1. VARIETY NAME OR TEMPORARY DESIGNATION <b>P61-22</b>	2. KIND NAME <b>Soybean</b>	FOR OFFICIAL USE ONLY	
		PV NUMBER <b>73064</b>	
3. GENUS AND SPECIES NAME <b>Glycine max</b>	4. FAMILY NAME (Botanical) <b>Leguminosae</b>	FILING DATE <b>2-22-73</b>	TIME <b>12:00 P.M.</b>
		FEE RECEIVED <b>\$ 2.50</b>	BALANCE DUE <b>\$ 00.00</b>
		<b>\$ 2.50</b>	<b>\$ 00.00</b>
		<b>\$ 2.50</b>	<b>\$ 00.00</b>
6. NAME OF APPLICANT(S) <b>PIONEER HI-BRED INTERNATIONAL, INC. Peterson Seed Co., Inc. DIVISION Dr. C.R. Weber (Breeder)</b>	7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) <b>3261 W. Airline Highway Waterloo, Iowa 50701</b>	8. TELEPHONE AREA CODE AND NUMBER <b>319-234-0335</b>	
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) <b>Corporation</b>		10. STATE OF INCORPORATION <b>Minnesota</b>	11. DATE OF INCORPORATION <b>June, 1960</b>
12. Name and mailing address of applicant representative(s), if any, to serve in this application and receive all papers: <b>Mr. L.A. Peterson</b> <b>Peterson Seed Co., Inc.</b> <b>3261 W. Airline Highway</b> <b>Waterloo, Iowa 50701</b> <b>DR. CLARK JENNINGS</b> <b>DIRECTOR OF RESEARCH</b> <b>PIONEER HI-BRED INTERNATIONAL, INC.</b> <b>PETERSON SEED DIVISION</b>			

## 13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- ☒ 13A. Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)
- ☒ 13B. Exhibit B, Botanical Description of the Variety
- ☒ 13C. Exhibit C, Objective Description of the Variety
- ☒ 13D. Exhibit D, Data Indicative of Novelty
- ☒ 13E. Exhibit E, Statement of the Basis of Applicant's Ownership

14A. Does the applicant(s) specify that seed of this variety be sold by variety name only as a class of certified seed? (See Section 83(a). (If "Yes," answer 14B and 14C below.) ☐ YES ☒ NO

14B. Does the applicant(s) specify that this variety be limited as to number of generations? ☐ YES ☐ NO

14C. If "Yes," to 14B, how many generations of production beyond breeder seed? ☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED

The applicant declares that a viable sample of basic seed of this variety will be deposited upon request before issuance of a certificate and will be replenished periodically in accordance with such regulations as may be applicable.

The undersigned applicant(s) of this sexually-reproduced novel plant variety believes that the variety is distinct, uniform, and stable as required in Section 41 and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Applicant is informed that false representation herein can jeopardize protection and result in penalties.

Feb 7, 1973  
(DATE)

C.R. Weber  
(SIGNATURE OF APPLICANT)

(DATE)

(SIGNATURE OF APPLICANT)

Revised Attachments: P61-22 soybeans (December 31, 1973)

- 12.A. P61-22 originated from a cross of Corsoy x (Magna x Provar). It is an  $F_3$  derived selection in the  $F_6$ . It has been tested five years. In its third year of test it was purified for a few off types. It is uniform within for maturity, height, pubescence and hila color. It was increased in 1972 in Iowa and 1972-73 in Puerto Rico and 1973 in Iowa.
- 12.B. P61-22 has purple flowers, gray pubescence, brown pod color, dull seed-coat luster, yellow seed coat and yellow hilum. It is uniform in growth and in plant and seed characteristics. P61-22 yields over 1 bushel per acre more than Amsoy, 2 bushels per acre more than Corsoy and is 3 days earlier than Amsoy and one day later than Corsoy in maturity. It is 3 inches shorter than Amsoy, one inch shorter than Corsoy and has slightly smaller seed than either. It lodges about the same as Amsoy and it has the same seed quality and canopy type. It has higher protein and oil than Corsoy.
- 12.C. See Objective Description of Variety (Glycine Max).
- 12.D. As compared with Corsoy, P61-22 is 1 day later in maturity, lodges less, is shorter and has a higher seed protein and oil. P61-22 has an Iodine number of 133.1. A 10 day old seedling of P61-22 grown under constant light in a growth chamber (500 foot candles using VHO Gro Lux lights) at 25 degrees centigrade and a humidity between 85 & 90% has a seedling length of 242 MM, a cotyledon length of 20 MM and a cotyledon width of 10 MM vs. 255 MM, 20 MM and 11 MM respectively for Corsoy. P61-22 yields 2 bushels per acre more than Corsoy, and has slightly smaller seed. 'P61-22' MOST CLOSELY RESEMBLES 'CORSOY' (LETTER OF JULY 17, 1974 Rfs).
- 12.E. ~~The Peterson Seed Company is the sole owner of P61-22 soybean variety.~~

THE PETERSON SEED DIVISION OF PIONEER HI-BRED  
INTERNATIONAL, INC. IS THE SOLE OWNER OF 'P61-22' SOYBEAN  
VARIETY. Rfs.

Attachments: P61-22

13A. P61-22 originated from a cross of Corsoy x (Magna x Provar). It is an  $F_3$  derived selection in the  $F_6$ . It has been tested four years. In the third year of test it was purified for a few off types. It is uniform within for maturity, height, pubescence, and hila color. It was increased in 1972 and in 1972-73 in Puerto Rico.

13B. P61-22 has purple flowers, gray pubescence, brown pod color, dull seed-coat luster, yellow seed coat, and yellow hilum. It is uniform in growth and in plant and seed characteristics. P61-22 yields over one bushel per acre more than Amsoy, matures three days earlier, is three inches shorter, and has smaller seed size. It lodges about the same as Amsoy and it has the same seed quality and canopy type. Protein and oil are being determined.

13D.

Performance 1969-1972\*

<u>Variety</u>	<u>Yield</u>	<u>Mat.</u>	<u>Height</u>	<u>Lodge</u>	<u>Seed Size</u>	<u>Seed Qual.</u>	<u>Canopy Score</u>
P61-22	47.1	9-19	39	2.3	16.0	1.2	2.6
Amsoy	45.9	9-22	42	2.2	18.0	1.2	2.6

\* All data collected similar to U.S.D.A. and State Experiment Stations.

13E. Dr. C.R. Weber is Director of Research and developer of P61-22 for the Peterson Seed Co., Inc.

OBJECTIVE DESCRIPTION OF VARIETY  
SOYBEAN (GLYCINE MAX)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S)

Peterson Seed Company

ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code)

3261 West Airline Highway  
Waterloo, Iowa 50701

FOR OFFICIAL USE ONLY

PVPO NUMBER

73064

VARIETY NAME OR TEMPORARY  
DESIGNATION

P61-22

Place the appropriate number that describes the varietal character of this variety in the boxes below.

## 1. SEED SHAPE:

☒ 1

1 = SPHERICAL

2 = SPHERICAL  
FLATTENED

3 = ELONGATE

4 = OTHER (Specify)

## 2. SEED COAT COLOR:

☒ 1

1 = YELLOW

2 = GREEN

3 = BROWN

4 = BLACK

5 = OTHER (Specify)

SHADE:

☒ 2

1 = LIGHT

2 = MEDIUM

3 = DARK

## 3. SEED COAT LUSTER:

☒ 1

1 = DULL

2 = SHINY

## 4. SEED SIZE

☒ 16

GRAMS PER 100 SEEDS

## 5. HILUM COLOR:

☒ 2

1 = BUFF

2 = YELLOW

3 = BROWN

4 = GRAY

5 = IMPERFECT  
BLACK

6 = BLACK 7 = OTHER (Specify)

SHADE:

☒ 2

1 = LIGHT

2 = MEDIUM

3 = DARK

## 6. COTYLEDON COLOR:

☒ 1

1 = YELLOW

2 = GREEN

☒ 2

1 = SMALL

2 = MEDIUM

3 = LARGE

## 8. LEAFLET SHAPE:

☒ 1

1 = OVATE

2 = OBLONG

3 = LANCEOLATE

4 = ELLIPTICAL

5 = OTHER (Specify)

## 9. LEAF COLOR (See reverse):

☒ 2

1 = LIGHT GREEN

2 = MEDIUM GREEN

3 = DARK GREEN

## 10. FLOWER COLOR:

☒ 2

1 = WHITE

2 = PURPLE

3 = OTHER (Specify)

## 11. POD COLOR:

☒ 2

1 = TAN

2 = BROWN

3 = BLACK

## 12. POD SET:

☒ 1

1 = SCATTERED

2 = CONCENTRATED

## 13. PLANT PUBESCENCE COLOR:

☒ 1

1 = GRAY

2 = BROWN

3 = OTHER (Specify)

SHADE:

☒ 2

1 = LIGHT

2 = MEDIUM

3 = DARK

## 14. PLANT TYPES (See Reverse):

☒ 3

1 = SLENDER

2 = BUSHY

3 = INTERMEDIATE

## 15. PLANT HABIT:

☒ 2

1 = DETERMINATE

2 = INDETERMINATE

3 = OTHER (Specify)

## 16. HYPOCOTYL COLOR:

☒ 2

1 = GREEN

2 = PURPLE

## 17. SEED PROTEIN:

☐ 1

1 = A

2 = B

18. NUMBER OF DAYS TO FLOWERING  
(Place a zero in first box (e.g., 0 9) when  
days are 9 or less.)☒ 55

## 19. MATURITY GROUP:

☒ 4

1 = 00

2 = 0

3 = I

4 = II

5 = III

6 = IV

7 = V

8 = VI

9 = VII

10 = VIII

20. SIZE OF 10 DAY OLD SEEDLING GROWN UNDER CONSTANT LIGHT (Growth Chamber) AT 25° C. (Place a zero in first box  
(e.g., 0 2) when size is 9 mm. or less.)☒ 242MM. LENGTH  
OF SEEDLING☒ 20MM. LENGTH  
OF COTYLEDON☒ 10MM. WIDTH  
OF COTYLEDON

## 21. DISEASE: (Enter 0 - Not Tested; 1 - Susceptible; 2 - Resistant)

☐ 0BACTERIAL  
PUSTULE☐ 0SOYBEAN  
CYST☐ 0DOWNY  
MILDEW☐ 0PURPLE  
STAIN☐ 0POD AND  
STEM BLIGHT☐ 0ROOT  
KNOT☐ 0

FROGEYE

☐ 0STEM  
CANKER☒ 1PHYTO-  
PHTHORA☐ 0BROWN  
STEM ROT☐ 0TARGET  
SPOT☐ 0BROWN  
SPOT☐ 0BUD  
BLIGHT☐ 0

WILDFIRE

☐ 0RHIZOCTONIA  
ROT☐

OTHER (Specify)

Revised Attachments: P61-22 soybeans (December 31, 1973)

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- 12.E. The Peterson Seed Company is the sole owner of P61-22 soybean variety.

## 22. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED.

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant shape	CORSOY	Petiole angle	CORSOY
Leaf shape	CORSOY	Seed size	SMALLER THAN CORSOY
Leaf color	CORSOY	Seed shape	SOMEWHAT LIKE CORSOY
Leaf surface	CORSOY	Seedling pigmentation	CORSOY

## 23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY:

VARIETY	NO. OF DAYS TO MATURITY	LODGING SCORE	PLANT HEIGHT	LEAF SIZE		CONTENT		AVERAGE NO. OF PODS PER PLANT	IODINE NO.
				Width	Length	Protein	Oil		
P 61-22 Submitted	119	2.3	39	—	—	42.4	21.2 %	VARIABLE-DEPENDS	133.1
Name of similar variety CORSOY	118	2.4	40	—	—	41.8	21.0	UPON PLANTING RATE	133.3

## INSTRUCTIONS

**GENERAL:** The following publications may be used as a reference aid for completing this form:

1. Scott, Walter O. and Samuel R. Aldrich, 1970, Modern Soybean Production, The Farmer Quarterly.
2. Norman, A. G., 1963, The Soybean: Genetics, Breeding, Physiology, Nutrition, Management.
3. McKie, J. W., and K. L. Anderson, 1970, The Soybean Book.

**LEAF COLOR:** Nickerson's or any recognized color fan may be used to determine the leaf color of the described variety. The following Soybean varieties may be used as a guide to identify the colors listed on the form.

COLOR	VARIETY
Light Green	"Ada"
Medium Green	"Wilkin"
Dark Green	"Swift"

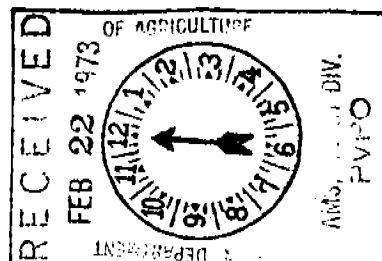
**LEAF SIZE:** The following varieties may be used as a guide to identify the relative size leaves.

SIZE	VARIETY
Small	"Amsoy"
Medium	"Bonus"
Large	"Anoka"

**PLANT TYPE:** The following varieties may be used as a guide to identify the plant type.

TYPE	VARIETY
Slender	"Vansoy"
Intermediate	"Wirth"
Bushy	"Adelphia"

## INSTRUCTIONS



GENERAL: Send an original copy of the application, exhibits and \$250.00 fee to U.S. Dept. of Agriculture, Agricultural Marketing Service, Grain Division, 6525 Belcrest Road, Hyattsville, Maryland 20782. (See Section 180.175 of the regulations and rules of practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

## ITEM

- 5 Insert the date the applicant determined that he had a new variety based on the definition in Section 41 (a) of the Act and decision is made to increase the seed.
- 13a First, give the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method. Second, give the details of subsequent stages of selection and multiplication. Third, indicate the type and frequency of variants during reproduction and multiplication and state how these variants may be identified. Fourth, provide evidence on stability.
- 13b First, give any special characteristics of the seed and of the plant as it passes through the seedling stage, flowering stage and the fruiting stage. Second, describe the mature plant and compare it with a similar commercial variety grown under the same conditions, and indicate the differences.
- 13c A supplemental form will be furnished by the PVPO to describe in detail a variety for each kind of seed.
- 13d Provide complete data indicative of novelty. Seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty may be submitted. Seeds submitted may be sterile.
- 13e Indicate whether applicant is the actual breeder, the employer of the breeder, the owner through purchase or inheritance, etc.